

ABSTRACT

An electric power converter comprises a main circuit unit including a switching unit that performs switching from a DC voltage including a DC voltage generated from an AC voltage to an AC voltage having an arbitrary frequency and an arbitrary voltage and that outputs the AC voltage and a control unit that controls a switching element that is a component of the switching unit based on information concerning the operation of a preset load and information emitted from various detectors included in the main circuit unit so that the switching element reaches a desired on/off operational state. In the electric power converter, the main circuit unit includes a storage unit that stores characteristics concerning the main circuit unit, calibration values, a production history, a use history, lifetime information about the components of the main circuit unit calculated from the use history, and specifications. Accordingly, the work of combining the main circuit unit and the control unit together and the function changing work can be facilitated, and an increase in the volume of inventories can be restricted. Additionally, it becomes possible to provide an electric power converter capable of allowing a user to easily perform upgrading.